DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD			LLL LLL LLL LLL
DDD DD			LLL
DDD DD			LLL
DDD DD			
DDD DD			
DDD DD			LLL
DDD DD			iii
DDD DD			ΙΙΙ
DDD DD			iii
DDD DD			LLL
000 00			LLL
DDD DD			iff
DDD DD			rrr Lrr
DDD DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	D CC	נככככככככככ	
DDDDDDDDDDDD		000000000000000000000000000000000000000	
DDDDDDDDDDDD		000000000000000000000000000000000000000	

MM MM MMM MMM MMMM MMMM MMMMM MM MM MM MM	\$	\$	AAAAA AA AA AA AA	GGGGGGG GG GG GG GG GG GG GG GG GG GG G	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	• • • •
	\$					

, *

.

*

*

*

*

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*

*

; *

*

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```
.TITLE MESSAGE - MESSAGE OUTPUT ROUTINES .IDENT 'V04-000'
```

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MESSAGE OUTPUT ROUTINES

D. N. CUTLER 28-MAR-77

MODIFIED BY:

V03-010 HWS0065 Harold Schultz 09-May-1984
Use a temporary RAB built on stack when flushing output to a batch log file instead of current output RAB.

V03-009 HWS0058 Harold Schultz 12-Apr-1984 Add DCL\$SPAWNOUT message routine for SPAWN since it doesn't have valid pointer to work area. (Must be same as DCL\$MSGOUT.

V03-008 PCG0008 Peter George 02-Mar-1984 Move inhibit message bit test.

V03-007 HWS0014 Harold Schultz 21-Feb-1984 If current error number equal to RMS STS value in PRC_L_STS, signal both the STS and STV messages.

V03-006 PCG0007 Peter George 21-Nov-1983 Fix bug in recifying record for \$FLUSH.

V03-005 PCG0006 Peter George 29-Jun-1983 Handle event flags more intelligently.

V03-004 PCG0005 Peter George 24-Jun-1983 Fix broken branch.

0000 0000 0000 0000 0000	58 59 60 61 62 63 64 65 66 67	v03-004	PCG0004 Peter George Do not special case negative statuses. Return non-zero status when calling SEI interactively. Change order of \$FLUSH in flush ast routine.	15-Jun-1983 OUTPUT RATE and \$SETTIMER
0000 0000 0000	65 : 66 : 67 :	v03-003	PCG0003 Peter George Add DCL\$FLUSH_OUTPUT. Fix order of args but in \$PUTMSG call.	30-Apr-1983
0000 0000 0000	68 69 70 71	v03-002	PCG0002 Peter George Add DCL\$FORMMSG.	21-Mar-1983
0000 0000 0000 0000 0000	72 73 74 75 76	v03-001	PCG0001 Peter George Use \$PUTMSG to output command segment. Delete DCL\$ERROUT.	07-Jan-1983

J 1

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\$

```
.SBITL OUTPUT ERROR MESSAGE
                    0000
                             95
                             96
97
                    0000
                                   DCLSERRORMSG - OUTPUT ERROR MESSAGE
                    0000
                    0000
                                   THIS ROUTINE IS CALLED TO OUTPUT AN ERROR MESSAGE AND DISPLAY THE SEGMENT
                    0000
                             99
                                   OF THE COMMAND LINE THAT IS IN ERROR.
                    0000
                            100
                    0000
                            101
                                   INPUTS:
                            102
                    0000
                    0000
                                          RO = ERROR NUMBER.
                                          WRK_L_MARKPTR = ADDRESS OF START OF TOKEN IN EXPANSION BUFFER.
WRK_L_EXPANDPTR = ADDRESS OF NEXT BYTE IN EXPANSION BUFFER.
R10 = BASE ADDRESS OF COMMAND WORK AREA.
                    0000
                            104
                    0000
                            105
                    ŎŎŎŎ
                            106
                    0000
                            107
                                          R11 = BASE ADDRESS OF PROCESS WORK AREA.
                    0000
                            108
                    0000
                            109
                                   OUTPUTS:
                    0000
                            110
                    0000
                            111
                                          THE APPROPRIATE ERROR MESSAGE IS DISPLAYED ALONG WITH THE SEGMENT OF
                    0000
                            117
                                          THE COMMAND LINE IN ERROR.
                            115
                    0000
                    0000
                            114
                                          RO IS PRESERVED ACROSS CALL.
                            115 ;-
                    0000
                    0000
                            116
                    ŎŎŎŎ
                            117 DCLSERRORMSG::
                                                                               ;OUTPUT ERROR MESSAGE
                    0000
                                                   #^M<RO,R1,R2,R3,R4,R5>
                            118
                                          PUSHR
                                                                               :SAVE REGISTERS
53 50
          10
                    0002
                            119
                                          BBS
                                                   #STS$V_INHIB_MSG,RO,60$ ;BR IF NO MESSAGE DESIRED
                    0006
                            120
                            121 :
122 :
123 :
                    0006
                    0006
                                   Check if offending text should be output as part of this error message.
                    0006
                                                   #2,R5
#3±4,R4
                    0006
    55
               DO
                                          MOVL
                                                                               ASSUME NO COMMAND SET WILL BE OUTPUT
          00
               DO
                    0009
                            125
                                          MOVL
                                                                                 SET ARG COUNT AND STACK USAGE
                                                   WWRK V COMMAND -
WRK W FLAGS (R10),40$
                            126
127
               E0
                    000C
                                                                               DO NOT OUTPUT IF COMMAND IN EXECUTION
          01
                                          BBS
   22 FO AA
                    000E
               30
                                                   DCLSMARKEDTOKEN
       FFEC'
                    0011
                                          BSBW
                                                                               GET DESCRIPTOR OF CURRENT PARSE STRING
          62
                95
                    0014
                            129
                                          TSTB
                                                   (R2)
                                                                               DOES TOKEN START WITH EOL CHAR?
          18
               13
                    0016
                            130
                                          BEQL
                                                   40$
                                                                               IF SO, ASSUME AT EOL AND SKIP TEXT
          51
               D5
                    0018
                            131
                                                                               :WILL ANY TOKEN BE SHOWN?
                                          TSTL
                                                   R1
                            132
133
                13
                    001A
                                          BEQL
                                                   40$
                                                                               : IF NO ERROR TOKEN, SKIP IT
                    001C
                    001C
                            134
                            135 :
                    0010
                                  Build the command line part of the message argument vector.
                            136 ;
137 30$:
                    001C
                    001C
    7E
                                          MOVQ
                                                   R1,-(SP)
                                                                               :PUSH SEGMENT DESCRIPTOR ON STACK
          5E
               DD
                    001F
                            138
                                          PUSHL
                                                   SP
                                                                               PUSH ADDRESS OF SEGMENT DESCRIPTOR
    7E
7E
                            139
                                                   #^X0011,-(SP)
          11
                80
                    0021
                                          MOVW
                                                                               ONLY OUTPUT THE TEXT PART
                                                   #1,-(SP)
          01
                BO
                    0024
                             140
                                          MOVU
                                                                               ONE FAO ARGUMENT
                                                                               PUSH MESSAGE CODE
                                                   MCLIS_CMDSEG
M5,R5
00038248
          8F
                DD
                    0027
                             141
                                          PUSHL
                            142
                    0020
          05
                DO
                                          MOVL
          20
                DO
                    0030
                                          MOVL
                                                   #8+4,R4
                                                                               SET STACK USAGE
                    0033
                            144
                    0033
                             145
                            146 : Build the status part of the message argument vector. 147 :
                    0033
                    0033
                                 405:
                                                   PRC_L_STS(R11)
                    0033
                            148
    0084 CB
                                          TSTL
                                                                               : VALID STS VALUE?
                13
                    0037
                            149
                                          BEQL
                                                                               :NO. PROCESS NORMALLY
                    0039
                            150
```

			- ME OUTP	SSAGE C UT ERRO	OUTPUT ROUTI OR MESSAGE	NES	16-SEP-1984 00 4-SEP-1984 23	:09:02 VAX/VMS Macro V04-00 :42:03 [DCL.SRC]MESSAGE.MAR;1	Page 5 (3)
50	0084	CB OB	D1 12	0039 003E 0040	151 152 153 154 155 156 157 158 159 45\$: 160 50\$:	CMPL BNEQ	PRC_L_STS(R11),R0	;STS VALUE = TO CURRENT ERROR NUM? ;NO, PROCESS NORMALLY	
	02	55 06 CB	91 14 DD	0040 0043 0045 0049	154 155	CMPB BGTR	R5.#2 45\$ PRC_L_STV(R11)	OUTPUT COMMAND SET?	
	0088	02 08	DD 11	NNAB	156 157 158	PUSHL BRB	PRC_L_STV(R11) 50\$; PUT STV VALUE INTO MESSAGE VECTOR	
		00 50 55	DD DD DD	004B 004D 004F 0051 0054 0056		PUSHL PUSHL PUSHL	#0 R0 R5	CREATE PUTMSG VECTOR (FAO COUNT) SET STATUS CODE A ARGS ON PUTMSG VECTOR	
	50	5É	DÖ	0051 0054	162 163	MOVL	SP,RO	ADDRESS OF THE BUFFER DESCRIPTOR	
	5E	28 54	10 C0	0054 0056 0059	162 163 164 165 166 167 60\$:	BSBB ADDL	DCLSPUTMSG R4,SP	;SIGNAL PUTMSG VECTOR AT (RO) ;POP EVERYTHING UP TO BUFFER AND DE	sc.
	0084	CB 3F	7C BA 05	0059 0059 005D 005F	167 60\$: 168 169 170	ASSUME CLRQ POPR RSB	PRC_L_STV EQ PRC_L_STS+4 PRC_L_STS(R11) #^M <ro,r1,r2,r3,r4,r5></ro,r1,r2,r3,r4,r5>	; INIT. STS AND STV ERROR NUMBERS ; RESTORE REGISTERS	

MESSAGE V04-000 - MESSAGE OUTPUT ROUTINES

FORMAT MESSAGE

```
172 .SBTIL FURTING TO CR
                    0060
                    0060
                    0060
                    0060
                    0060
                           176
177
                                 THIS ROUTINE IS CALLED TO CREATE A MESSAGE VECTOR FOR A MESSAGE AND THEN
                    0060
                                  CALL DCLSPUTMSG TO OUTPUT THAT MESSAGE.
                    0060
                           178
                           179
                    0060
                               : INPUTS:
                    0060
                           130
                    0060
                           181
                                        RO = ERROR NUMBER.
                    0060
                                        R1 = NUMBER OF ARGUMENTS.
                                        R10 = BASE ADDRESS OF COMMAND WORK AREA.
                    0060
                    0060
                                        R11 = BASE ADDRESS OF PROCESS WORK AREA.
                    0060
                           185
                           186 :
187 :
                    0060
                                        THE FAO ARGUMENTS ARE ON THE STACK, JUST ABOVE THE STORED PC.
                    0060
                    0060
                           188 : OUTPUTS:
                           189 ;
                    0060
                           190 ;
                    0060
                                        THE ERROR MESSAGE IS DISPLAYED.
                                        THE FAO ARGUMENTS ARE POPPED FROM THE STACK.
                           191 ;
                    0060
                           192 :
                    0060
                                        R1,R2 ARE DESTROYED
                    0060
                           193 :-
194 DCL$FORMMSG::
                    0060
                                                                          ;OUTPUT MESSAGE
     52
                           195
                                                 (SP) + R2
                    0060
                                        MOVL
                                                                          GET SAVED PC
          51
                           196
                                                R1
                DD
                    0063
                                        PUSHL
                                                                          PUSH FAO COUNT
                                        PUSHL
ADDL3
                    0065
                           197
          50
                                                R0
                                                                          SET STATUS CODE
               DD
7E
          02
                C1
                    0067
                           198
                                                #2,R1,-(SP)
                                                                          SET # ARGS IN PUTMSG VECTOR
          ŠĒ
     50
                           199
                                                 SP.RO
               D0
                    006B
                                        MOVL
                                                                          SET ADDRESS OF THE ARGUMENT VECTOR
                                                DCLSPUTMSG
                                        BSBB
                    006E
                           200
          0E
                10
                                                                           SIGNAL PUTMSG VECTOR AT (RO)
          08
                CO
                    0070
                           201
     5E
                                        ADDL
                                                #8,SP
                                                                          RESTORE THE STACK
          51
             8EDO
                           202
                                                R1
                    0073
                                        POPL
        6E41
52
                                                 (SP)[R1],SP
                           203
   5E
               DE
                    0076
                                        MOVAL
     7E
               D0
                    007A
                           204
                                                R2,-(SP)
                                                                          RESTORE THE PC
                                        MOVL
                           205
                05
                    007D
                                        RSB
```

BBC

RSB

BSBW

03 FO AA

FF51'

OCAC

00AF

```
007E
007E
007E
007E
007E
007E
007E
                                                                    .SBITL PUTMSG OUTPUT ROUTINE
                                                                    THIS ROUTINE OUTPUTS A GIVEN PUTMSG MESSAGE VECTOR
                                                      : INPUTS:
                                                                   R10 = ADDRESS OF COMMAND WORK AREA
R11 = ADDRESS OF PROCESS WORK AREA
                                                                    RO = ADDRESS OF PUTMSG VECTOR
                                     007Ē
                                                      : OUTPUTS:
                                     007E
007E
007E
007E
                                                                   NONE
                                                      DCLSPUTMSG::
                                                                                                                       : DISABLE CONTROL Y/C AST'S : FACILITY NAME
                                     007E
                                                                   DISABLE
        204C4344 8F
                                     0084
                              DD
                                                                    PUSHL
                                                                                W^A'DCL '
                              DD
                                     008A
                                                                    PUSHL
                                                                                                                        : MAKE DESCRIPTOR OF NAME
                              DD
                                     0080
                                                                    PUSHL
                                                                                #3
                                                                                SP; SET ADDRESS OF FACNAM
#STS$V_FAC_NO,#STS$S_FAC_NO,4(RO),-
#<CLIS_ABKEYW&STS$M_FAC_NO>a-STS$V_FAC_NO
10$; BRANCH IF OUR FACILITY
                              DD
                                     008E
                                                                    PUSHL
                      10
 04 A0
              00
                              ED
                                     0090
                                                                    CMPZV
                                     0095
                      02
                              13
                                     0096
                                                                    BEQL
                                                                                                                          IF NOT OUR FACILITY, ZERO FACHAM PARAMETER
                                     8600
                      6E
                              D4
                                                                    CLRL
                                                                                 (SP)
                      00
50
                              CD
                                     009A
                                                                    PUSHL
                                                                                #0
                                                                                                                           NO ACTION ROUTINE
                                                                                RO ; RO = ADDRESS OF MESSAGE VECTOR ; RO = ADDRESS OF MESSAGE VECTOR ; WRITE THE MESSAGE TO SYSSERROR, OUTPUT ; RE-ENABLE CONTROL/Y AST'S WWRK_V_COMMAND, WRK_W_FLAGS(R10), 90$; BRANCH IF NO IMAGE ACTIVE DCLSCHECK_AST ; CHECK FOR PENDING AST
                                     0090
                              DD
                                                                    PUSHL
90000000 GF
                                     009E
                              FB
                                                                    CALLS
                                    00A5
00A7
                                                                    ENABLE
                              £1
30
05
```

C 2

0006

05

269

RSB

0102

0105

301

302 30\$:

BSBW

RSB

FEFB'

CHECK FOR PENDING AST

```
00D7
                                                      .SBTTL OUTPUT FILE MESSAGE OUTPUT
                                     271
2773
2775
2776
2778
2778
2778
                           00D7
                           0007
                                             DCL$MSGOUT - OUTPUT FILE MESSAGE OUTPUT
                           00D7
                           00D7
                                             THSI ROUTINE IS CALLED TO OUTPUT A MESSAGE TO THE OUTPUT FILE.
                           00D7
                           00D7
                                             INPUTS:
                           00D7
                                                      R1 = LENGTH OF MESSAGE.
                           00D7
                           00D7
                                      280
                                                      R2 = ADDRESS OF MESSAGE.
                           00D7
                                      281
                                                      R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                     282
283
                           00D7
                           00D7
                                             OUTPUTS:
                           00D7
                                     284
                                      285
                           00D7
                                                      THE MESSAGE IS WRITTEN TO THE OUTPUT FILE AND CONTROL IS RETURNED
                           00D7
                                     286
                                                      TO THE CALLER.
                           00D7
                                      287
                           00D7
                                     288
                                                      REGISTERS R3, R4, AND R5 ARE PRESERVED ACROSS CALL.
                                     289 :-
290
291 DCI
292
293
                           00D7
                           00D7
                           00D7
                                          DCL$MSGOUT::
                                                                                                  ; MESSAGE OUTPUT
                                                                PRC_L_INDOU(RAB(R11), RO :GET ADDRESS OF INDIRECT OUTPUT RAB #PRC_V_YLEVEL, PRC_W_FLAGS(R11), 20$ :BR IF NOT IN CONTROL Y PRC_C_OUTRAB(R11), RO :SET_ADDRESS OF OUTPUT FILE RAB
    50
          18 AB
                      00
                           00D7
                                                      MOVL
              0B
   68 AB
                      E1
                           00DB
                                                      BBC
    50
           00
              AB
                      ĎΟ
                           00E0
                                     294
                                                      MOVL
                                     295 20$:
296
297
                                                                                                  DISABLE CONTROL Y/C AST'S SET SIZE OF OUTPUT RECORD SET ADDRESS OF OUTPUT RECORD
                            00E4
                                                      DISABLE
    0A SS
               51
52
                           OOEA
                                                                R1, RAB$W_RSZ(RO)
R2, RAB$L_RBF(RO)
                      B0
                                                      MOVW
                      D0
                           OOEE
                                                      MOVL
                                                                                                  OUTPUT RECORD
                            00F2
                                      298
                                                      $PUT
                                                                 RAB=(RO)
                                                                 ENABLE CONTROL Y/C AST'S #WRK_V_COMMAND, WRK_W_FLAGS(R10), 30$ ; IF CLR, NO COMMAND EXECUTION
                            OOFB
                                      299
                                                      ENABLE
                      E1
30
05
03 FO AA
                           00FD
                                     300
                                                      BBC
```

DCLSCHECK_AST

05

0142

338 30\$:

RSB

```
0106
                                304
305
                        0106
                                             .SBTTL SET FLUSH RATE COMMAND
                                306 :+
307 : DCL$SETFLUSH - FLUSH OUTPUT FILE
                         0106
                         0106
                         0106
                                308
                         0106
                                309
                                      THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO SET THE OUTPUT BUFFER
                         0106
                                310
                                    : FLUSH RATE.
                         0106
                         0106
                                      INPUTS:
                         0106
                                314;
                         0106
                                             R10 = BASE ADDRESS OF COMMAND WORK AREA.
                         0106
                                315
                                             R11 = BASE ADDRESS OF PROCESS WORK AREA.
                         0106
                                317
                         0106
                                    : OUTPUTS:
                         0106
                                318
                        0106
                                319
                                             THE FLUSH RATE IS SET.
                         0106
                                320
                         0106
                                    DCL$SETFLUSH::
                         0106
                                                     NORMAL
                                                                                           ASSUME SUCCESS
                                             STATUS
                                                     WPRC_V_MODE,-
PRC_W_FLAGS(R11),30$
                        010D
                    E1
                                             BBC
                                                                                          IGNORE IF INTERACTIVE PROCESS
        30 68 AB
                         010F
                        0112
                    30
                                             BSBW
                                                      DCLSGETDVAL
                                                                                           SKIP PAST OPTION KEYWORD
            FEEB'
            FEE8'
                    30
                                             BSBW
                                                                                          WAS A VALUE SPECIFIED?
                                                      DCLSGETDVAL
         04
                        0118
                                327
                    D1
                                             CMPL
                                                      R5, #PTR_K_ENDLINE
                                                                                           NO, THEN SIMPLY FORCE A FLUSH NOW
                    13
                        011B
                                                      20$
               1E
                                             BEQL
                                                      R1,-(SP)
                    7D
                        011D
                                329
               51
                                                                                           BUILD DESCRIPTOR FOR DELTA TIME ST
                                             MOVQ
                                             MOVE SP.R3
$BINTIM_S TIMBUF=(R3),-
                        0120
               5E
                    DO
                                330
                                                                                           SAVE ADDRESS OF QUAD WORD DECRIPTO
                                                                                           CONVERT TIME TO BINARY DELTA FORMA
                         0123
                                                      TIMADR=(R3)
                    E9
7D
                        012E
                                             BLBC
                                                      RO,30$
                                                                                           BR IF ERROR IN TIME
                        0131
    00D0 CB
                                                      (SP)+,PRC_Q_FLUSHTIME(R11)
                                             MOVQ
                                                                                          SAVE THE FLUSH TIME INTERVAL
                        0136
                                335
                                             BSBB
                                                     DCL$SET_TIMER
                    10
                                                                                          SET THE TIMER
           07
                    E9
                        0138
                                336
                                                      RO.30$
                                                                                          BRANCH IF ERROR
              50
                                             BLBC
00000173'EF
              00
                        013B
                                337 205:
                                             CALLS
                                                                                         : FLUSH THE OUTPUT BUFFER
                    FB
                                                      #0,FLUSH
```

F 2

```
364
365 :+
366 : F
367 : F
                                   0168
                                                           .SBTTL FLUSH OUTPUT FILE
                                   0168
                                                FLUSH_AST - FLUSH_OUTPUT FILE
                                   0168
                                                  FLUSH - FLUSH OUTPUT FILE
                                            368
369
370
371
                                   0168
                                   0168
                                                   THIS ROUTINE IS CALLED TO FLUSH THE OUTPUT FILE.
                                   0168
0168
0168
0168
                                                   INPUTS:
                                                           R11 = BASE ADDRESS OF PROCESS WORK AREA.
                                   0168
0168
0168
0168
0168
0168
                                                   OUTPUTS:
                                            376
377
                                                           RO = STATUS
                                            378
                                            379
                                                           .ENABLE LSB
                                            381 FLUSH_AST:
                                   0168
                                                                                                            ;FLUSH OUTPUT
                                            382
383
                                                           .WORD
                            087C
                                   0168
                                                                     ^M<R2,R3,R4,R5,R6,R11>
                                   016A
                                                                                                            GET ADDRESS OF PRC DATA STRUCTURE
               5B
                     04 AC
                                                           MOVL
                                                                    4(AP),R11
                              D0
                  56
                        01
                                                                                                            RESET THE TIMER
                              DO
                                   016E
                                            384
                                                           MOVL
                                                                    #1,R6
                              11
                                   0171
                                            385
                                                           BRB
                                                                     10$
                                            386
387 FLUSH:
                                    0173
                            087C
                                   0173
                                                           .WORD
                                                                     ^M<R2,R3,R4,R5,R6,R11>
                                                                                                                      :FLUSH OUTPUT
                              D4
                                   0175
                                            388
                                                           CLRL
                                                                     R6
                                                                                                            :DO NOT RESET THE TIMER
                        56
                                            389
390
                                   0177
                                                 : INITIALIZE TEMPORARY RAB
                                   0177
                                   0177
                                            391
                                                105:
                                            392
393
                                   0177
              5E
                    BC AE
                                                           MOVAB
                                                                    -RAB$C_BLN(SP),SP
                                                                                                            ;ALLOCATE A RAB ON STACK
                                   017B
0044 8F
                                                           MOVC5
                                                                                                            :ZERO THE RAB(R1 NOW CONTAINS
                  6E
                                                                    #0,(SP),#0,#RAB$C_BLN,(SP)
                                   0183
                                            394
                                                                                                                    ADDRESS OF RAB
                                   0183
                                            395
                                                           ASSUME
                                                                    RAB$B_BID EQ 0
                                   0183
                                            396
                                                                    RABSB_BLN EQ RABSB_BID+1
                                                           ASSUME
                                   0183
                                            397
                  4401 8F
                              B0
                                   0183
                                            398
                                                           MOVW
                                                                     #<RAB$C_BID+<RAB$C_BLN@8>>,(R1) ;FILL IN BID AND BLN
            61
                                   0188
                                            399
                                                                    PRC_L INDOUTRAB(R11),R0

#PRC_V_YLEVEL,PRC_W_FLAGS(R11),20$ ;BR IF NOT IN CONTROL Y

PRC_C_OUTRAB(R11),R0

RAB$W_ISI(R0),-

RAB$W_ISI(R1)

RAB=(R1)

;OUTPUT RECORD

;OUTPUT RECORD
                                                           MOVL
                                                                                                             GET ADDRESS OF INDIRECT OUTPUT RAB
               50
                                   0188
                                            400
                     18 AB
           04 68 AB
                        0B
                              E1
                                   0180
                                            401
                                                           BBC
               50
                    OC AB
                              D0
                                   0191
                                            402
                                                           MOVL
                    02 A0
02 A1
                                            403 20$:
                              B0
                                   0195
                                                           MOVW
                                    0198
                                            404
                                    019A
                                            405
                                                           $FLUSH
                              E9
                                            406
                                                                                                            ;BRANCH IF NOT RESETING TIMER
                     03 56
                                   01A3
                                                           BLBC
                                                                     R6,30$
                                   01A6
                      FF9A
                                                           BSBW
                                                                     DCL$SET_TIMER
                                                                                                            RESET THE TIMER
                                            408 30$:
                  50
                        01
                              DO
                                   01A9
                                                           MOVL
                                                                     #1,R0
                                                                                                            SET SUCCESSFUL STATUS
                                    01AC
                                            409
                                                           RET
                                    01AD
                                            410
                                    01AD
                                            411
                                                           .DISABLE LSB
                                            412
                                    01AD
                                    01AD
                                                           .END
```

- MESSAGE OUTPUT ROUTINES

MESSAGE

USR

CON

ABS

LCL NOSHR

EXE

RD

WRT NOVEC BYTE

01 (

FFFFFFC

SABSS

MESSAGE Psect synopsis - MESSAGE OUTPUT ROUTINES

16-SEP-1984 00:09:02 VAX/VMS Macro V04-00 4-SEP-1984 23:42:03 [DCL.SRC]MESSAGE.MAR;1

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DCL\$ZCODE

000001AD (429.) 02 (2.) NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.08	00:00:00.35
Command processing Pass 1	82	00:00:00.74	00:00:04.24
	287	00:00:11.46	00:00:33.03
Symbol table sort	0	00:00:01.52	00:00:04.19
Pass 2	71	00:00:02.01	00:00:04.89
Symbol table output	19	00:00:00.18	00:00:00.81
Psect synopsis output		00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	470		00:00:47.53

The working set limit was 1350 pages.
57392 bytes (113 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 1035 non-local and 15 local symbols.
413 _ource lines were read in Pass 1, producing 14 object records in Pass 2.
48 pages of virtual memory were used to define 33 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1 _\$255\$DUA28:[DCL.OBJ]DCL.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	0 8 0 19 27

1280 GETS were required to define 27 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:MESSAGE/OBJ=OBJ\$:MESSAGE MSRC\$:MESSAGE/UPDATE=(ENH\$:MESSAGE)+EXECML\$/LIB+LIB\$:DCL/LIB+SYS\$LIBRARY:SYSBLDMLB/LIB

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